

526,199
10/526199

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022660 A1

(51) International Patent Classification⁷: C09D 183/04,
C08L 1/12

(74) Agent: VAN WERMESKERKEN, Stephanie, C.;
Philips Intellectual Property & Standards, Prof. Holstlaan
6, NL-5656 AA Eindhoven (NL).

(21) International Application Number:
PCT/IB2003/003713

(22) International Filing Date: 31 July 2003 (31.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/SG02/00201
6 September 2002 (06.09.2002) SG

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicants (*for all designated States except US*): KONIN-
KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
SINGAPORE INSTITUTE OF MANUFACTURING
TECHNOLOGY [SG/SG]; 71 Nanyang Drive, SG
638075 Singapore (SG).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): CNOSSEN, Gerard
[NL/SG]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven
(NL). KRINGS, Leo, H., M. [NL/SG]; c/o Prof. Holst-
laan 6, NL-5656 AA Eindhoven (NL). BOEHMER, Mar-
cel, R. [NL/SG]; c/o Prof. Holstlaan 6, NL-5656 AA Eind-
hoven (NL). TAN, Gim, H. [SG/SG]; 71 Nanyang Drive,
SG 638075 Singapore (SG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: COMPOUND FOR SCREEN-PRINTING, SCREEN-PRINTED LAYER AND SUBSTRATE PROVIDED WITH SUCH LAYER

(57) Abstract: The invention relates to a compound for screen-printing. The invention also relates to a screen-printed layer, wherein the layer is formed by such a compound. The invention further relates to a substrate, preferably a utensil, wherein at least a part of a surface of the substrate is provided with such a layer.

WO 2004/022660 A1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03713A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C09D183/04 C08L1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C09D C08L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 316 695 A (BRENNAN ANTHONY B ET AL) 31 May 1994 (1994-05-31) claims; examples ---	1-14
A	US 6 352 699 B1 (MONDET JEAN ET AL) 5 March 2002 (2002-03-05) claims; examples ---	1-14
A	US 5 116 703 A (BADESHA SANTOKH S ET AL) 26 May 1992 (1992-05-26) claims; examples ---	1-14
A	WO 91 08241 A (VIRGINIA TECH INTELL PROP) 13 June 1991 (1991-06-13) the whole document --- -/--	1-14

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

31 October 2003

Date of mailing of the international search report

11/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kolitz, R

INTERNATIONAL SEARCH REPORT

International

Application No

PCT/IB 03/03713

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 204 381 A (ZEIGLER JOHN M) 20 April 1993 (1993-04-20) claims; examples</p> <p>-----</p>	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/03713

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5316695	A	31-05-1994	NONE	
US 6352699	B1	05-03-2002	AU 717355 B2	23-03-2000
			AU 7055398 A	30-10-1998
			BR 9808454 A	23-05-2000
			CN 1251519 T	26-04-2000
			EP 0971685 A1	19-01-2000
			WO 9844906 A1	15-10-1998
			HU 0002337 A2	28-12-2000
			JP 2000510167 T	08-08-2000
			PL 336001 A1	05-06-2000
			RU 2179842 C2	27-02-2002
US 5116703	A	26-05-1992	JP 2575536 B2	29-01-1997
			JP 3191358 A	21-08-1991
WO 9108241	A	13-06-1991	US 5109080 A	28-04-1992
			WO 9108241 A1	13-06-1991
			US 5143988 A	01-09-1992
US 5204381	A	20-04-1993	US 5130397 A	14-07-1992